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Page 1 of 1 Attorney Docket No.: 23239-537

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					July 25,				
		RMATION DISC		First Named Inventor	Epstein				
STATEMENT BY APPLICANT					Group Art Unit 1645 Examiner Name Not Yet Assigned				
				Examiner Name					
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				U.S. PATENT DOCUMENTS	Se Se			14: 14:	
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing C		
K	A1	6,287,765	09/11/01	Cubicciotti	435	6			
KC	A2	6,399,302	06/04/02	Lannigan, et al.	435	6			
				UBLISHED APPLICATION DOCUMENTS			401(4)		
Exam Initials	Cite No.	U.S. Published Application No.	Published Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	- 1	g Date If opriate	
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X	C1	International Se	arch Report	for PCT/US03/23402, mailing date: Dec	cember 18,	2003.	•		
									
	 								
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	, fil	,		reviously cited by or submitted to the office in and relied upon for an earlier filing date unde					

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number	10/627,543	
Filing Date	July 25, 2003	
First Named Inventor	Epstein	
Group Art Unit	1645	
Examiner Name	Not Yet Assigned	
Attorney Docket Number	23239-537	

	U.S. PATENT DOCUMENTS						
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
Ke	А3	5,270,163	12/14/93	Gold et al.			
KC	A4	5,475,096	12/12/95	Gold et al.			
KC	A5	5,476,766	12/19/95	Gold et al.			
KE	A6	5,496,938	3/5/96	Gold et al.			
De	A7	5,567,588	10/22/96	Gold et al.			
VC.	A8	5,580,737	12/3/96	Polisky et al.			
KE	A9	5,637,459	6/10/97	Burke et al.			
KE	A10	5,648,214	7/15/97	Nieuwlandt et al.			
VE	A11	5,660,985	8/26/97	Pieken et al.			
æ	A12	5,672,695	9/30/97	Eckstein et al.			
K	A13	5,683,867	11/4/97	Biesecker et al.			
æ	A14	5,698,687	12/16/97	Eckstein et al.			
14	A15	5,705,337	1/6/98	Gold et al.			
VC	A16	5,707,796	1/13/98	Gold et al.			
K	A17	5,763,177	6/9/98	Gold et al.			
VC	A18	5,817,635	10/6/98	Eckstein et al.			
KC.	A19	5,859,228	1/12/99	Janjic et al.			
XC.	A20	5,958,691	9/28/99	Pieken et al.	0		
VQ.	A21	6,011,020	1/4/00	Gold et al.			
VC.	A22	6/051,698	4/18/00	Janjic et al.			
VQ/	A23	5,589,332	12/31/96	Shih, et al.			
W	A24	5,834,186	11/10/98	George, et al.			

				FOREIGN PATENT DOCUMENTS		
Exam Initial s	Cite No.	Foreig Office	n Patent Document Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes No
W	B1	wo	98/08974	Intelligene Ltd.	03/05/98	
X	/B2	wo	98/27104	Yale University	06/25/98	
K_C	B 3	wo	01/66721	Ribozyme Pharmaceuticals, Inc.	09/13/01	
XV	84	wo	00/70329	Brandeis University	11/23/00	
VC	B5	wo	99/31276	Nexstar Pharmaceuticals, Inc.	6/24/99	

				FOREIGN PATENT DOCUMENTS			
Exam Initial 8	Cite No.	Foreig Office	n Patent Document Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Transi Yes	lation No
KC	B 6	wo	03/014375	Archemix Corporation	2/20/03		
KC	B7	wo	02/22882	Archemix Corporation	3/21/02		
YC	B8	wo	91/19813	The University of Colorado Foundation, Inc.	12/26/91		
A	B9	wo	92/07065	Max-Planck-Gesellschaft Zur Förderung Der Wissenschaften E.V.	4/30/92		
KL	B10	wo	98/18480	Nexstar Pharmaceuticals, Inc.	5/7/98		

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS
Exa m	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
initi als		•
XC	C2	Breaker (1997). Nat Biotech 15: 427-431.
KC	C3	Breaker (1997). Chem Rev 97: 371-390.
K	C4	Breaker (1999). Intracellular Ribozyme Applications in Principles and Protocols, pgs. 1-19; Horizon Press, Wymondham UK, Rossi and Couture, eds.
KC.	C5	Breaker (2002). Curr Opin Biotech 13: 31-39.
KC	C6	Breaker (1997). Curr Opin Biotech 1: 26-31
ŸC	C7	Carmi, et al. (1996). Chem and Biol 3: 1039-1046.
Lle	,C8	Gold (2002). Nat. Biotech 20: 671-672
V	C9	Hamaguchi, et al. (2001). Anal Biochem 294: 126-131.
PU	/C10	Hartig, et al. (2002). Nat Biotech 20: 717-722.
K	C11	Jenne, et al. (2001). Nat Biotech 19: 56-61.
VC	C12	Koizumi, et al., (1999). Nat Struct Biol 6: 1062-1071.
180	C13	Li and Breaker (1999). Curr Opin Struct Biol 9: 315-323.
KC	C14	Li and Breaker (1999). Proc Natl Acad Sci USA 96: 2746-2751.
Ye	C15	Marshall and Ellington (1999). Nat Struct Bio 6 11: 992-994.
50	∕C16	Robertson and Ellington (1999). Nat Biotech 17: 62-66.
re	C17	Robertson & Ellington (2000) 3 Nucleic Acids Res 28: 1751-1759.
KC	C18	Robertson and Ellington (2001). Nat Biotech 19: 650-655.
KC	C19	Seetharaman, et al. (2001). Nat Biotech 19: 336-341.
YC	C20	Soukup and Breaker (1999). Proc Natl Acad Sci USA 96: 3584-3589.
Ϋ́	C21	Soukup and Breaker (1999). RNA 5: 1308-1325.
W	C22	Soukup and Breaker (1999). Structure 7: 783-791.
W	C23	Soukup and Breaker (1999). Tren Biotech 17: 469-476.
	/C24	Soukup and Breaker (2000) in Ribo Biochem Biotech, Eaton Publ: 149-170, Krupp & Gaur, eds.
W	C25	Tang and Breaker (1997). Chem Biol 4: 453-459.
W	C26	Tang and Breaker (1998). Nuc Acids Res 26: 4214-4221.
W	C27	Tang and Breaker (1997). RNA 3: 914-925.
Ve	C28	Koizumi, et al., (1999). Nucleic Acids Symp Ser 42:275-276.

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS
Exa m initi als	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
KO	_C29	Potyrailo et al., (1998). Anal Chem, 70: 3419-3425.
KC	C30	Seiwert, et al., (2000). Chem Biol 7: 833-843.
KC	C31	Soukup, et al., (2000). Journal of Molecular Biology 298: 623-632.
	∕C32	Sassanfar & Szostak, (1993). Nature 363: 550-553.
	C33	Soukup et al., (2001). RNA 7: 524-536.
K	C34	Sproat et al., (1990). Nuc Acids Res 19: 733-738.
布	C35	Cotten et al., (1991). Nuc Acids Res 19: 2629-2635.
W	C36	Hobbs et al., (1973). Biochemistry 12: 5138-5145.
15A	C37	Pagratis et al., (1997). Nat Biotechnol 15: 68-73.
KC	C38	Kraus et al., (1998). Journal of Immunology 160: 5209-5212.
<u> </u>	C39	Pieken et al., (1991). Science 253: 314-317.
KC	C40	Lin et al., (1994). Nucl Acids Res 22: 5529-5234.
KC	C41	Jellinek et al., (1995). Biochemistry 34: 11363-11372.
Ve	C42	Soukup and Breaker, (1999). Structure Fold Des 7: 783-791.
KA	C43	Steele-Perkins and Roth, (1990). J. Biol. Chem. 265: 9458-9463.
KC	/ C44	Vuyisich and Beal, (2002). Chemistry and Biology 9: 907-913.
YO	C45	McCollum and Gould, (2001). Trends Cell Biol 11: 89-95.
KC	C46	Ambros, (2000). Curr. Opin. Genet. Dev. 10: 428-433.
YU	C47	Lee and Ambros, (2001). Science 294: 862-864.
VC	C48	Wilson and Szostak, (1999). Annu. Rev. Biochem. 66: 611-647.
KC	C49	Hermann and Patel, (2000). Science 287: 820-825.
KC	C50	Jenison, et al., (1994). Science 263: 1425-1429
47	C51	Soukup and Breaker, (1999). Proc Natl. Acad. Sci. 28: 3584-3589.
1	C52	Robertson and Ellington, (2000). Nucleic Acids Res. 28: 1751-1759.
於	C53	Piganeau et al., (2000). Angew Chem. Int. Ed. 39: 4369-4373.
W	C54	Hartig et al., (2002). Nat. Biotechnol. 20: 717-722.
KC	C55	Koizumi et al., (1999). Nat. Struct. Biol. 6: 1062-1071.
KC	C56	Chestanga and Lindahl, (1979). Nucl Acids Res. 10: 3673-3684
KY	C57	Boiteux et al., (1990). J. Biol. Chem. 265: 3916-3922.
W	C58	David and Williams, (1998). Chem. Rev. 98: 1221-1261.
70	C59	Tchou et al., (1991). Proc. Natl. Acad. Sci. USA 88: 340-348.
W	C60	Moazed and Noller, (1987). Nature 327: 389-394.
K	C61	Yoshizawa et al., (2002). Biochemistry 41: 6263-6270.
W	C62	Carter et al., (2000). Nature 407: 340-348.
(2)	C63	Wallis, et al., (1995). Chem. Biol. 2: 543-552.
W	C64	Leipold, et al., (2000). Biochemistry 39: 14984-14992.

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•	•	OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS
Exa m Initi als	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
KC	C65	Zharkov et al., (1997). J. Biol. Chem. 5335-5342.
YC.	C66	Mathews et al., (1999). J. Mol. Biol. 288: 911-940.
K.	C67	Famulok et al., (2001). Chem. Biol. 8: 931-939.
YC	C68	Ellington and Szostak, (1990). Nature 346: 818-822
VC.	C69	Hermann, (2000). Angew. Chem. Int. Ed. 39: 1890-1905
D	C70	Thomas et al., (1997). J. Biol. Chem. 272: 27980-27986.
X	JC71	Breaker (1996). Curr Opin Biotech 7: 442-448.

Examiner Signature Date Consider	511810S
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